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$${}^1P_9 - {}^9P_8 = 3628800 - 362880 = 3265920, \text{ taken 9 at a time.}$$

$${}^{10}P_{10} - {}^9P_9 = 3628800 - 362880 = 3265920, \text{ taken 10 at a time.}$$

\therefore 8877690 in all.

(2). This is equivalent to asking how many numbers less than 10000000000 can be made with the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 0.

$$\therefore (10)^{10} - 1 = 9999999999.$$

$$9999999999 - 8877690 = 9991122309 \text{ more by the second arrangement.}$$

Mr. Gould's solution is similar to the above, but by including Mr. Zerr's he gets as results 8,877,691 and 10,000,000,000.

EDITORIALS.

The Index to Vol. VI was prepared by Prof. J. Scheffer.

The MONTHLY and any of the leading magazines may be procured at reduced rates.

This number concludes Vol. VI of the MONTHLY. We take this opportunity to thank our contributors for their generous coöperation in making the journal a success; and we hope we may rely on their help during the year 1900. In order that the subscription list may be increased we make this offer: An old subscriber sending us \$3., may have his own subscription and that of a new subscriber credited up to January 1, 1901.

The Report on Progress in Non-Euclidean Geometry which appeared in THE AMERICAN MATHEMATICAL MONTHLY for October, and which is contained in full in the Proceedings of the American Association for the Advancement of Science, has also been published in full in *Science* for October 20, and now appears in *Popular Astronomy* for November and December. An editorial, addressed to "Teachers of Geometry and Astronomy," says: "We have printed two articles in this number to which special attention is asked on the part of teachers of Geometry and Astronomy. . . ."

The other article is by Professor George Bruce Halsted, who, not long ago, was asked by the American Association for the Advancement of Science to prepare a report which was given at its Columbus meeting showing recent progress in non-Euclidean Geometry.

Professor Halsted has done the teachers of Geometry most excellent service in the preparation of this paper. We call attention to this early, that teachers may read it thoroughly, so as to be acquainted with what is now going on among the masters in pure mathematics. The information gained will be helpful to those who want to be abreast with the best teaching talent of the present time."